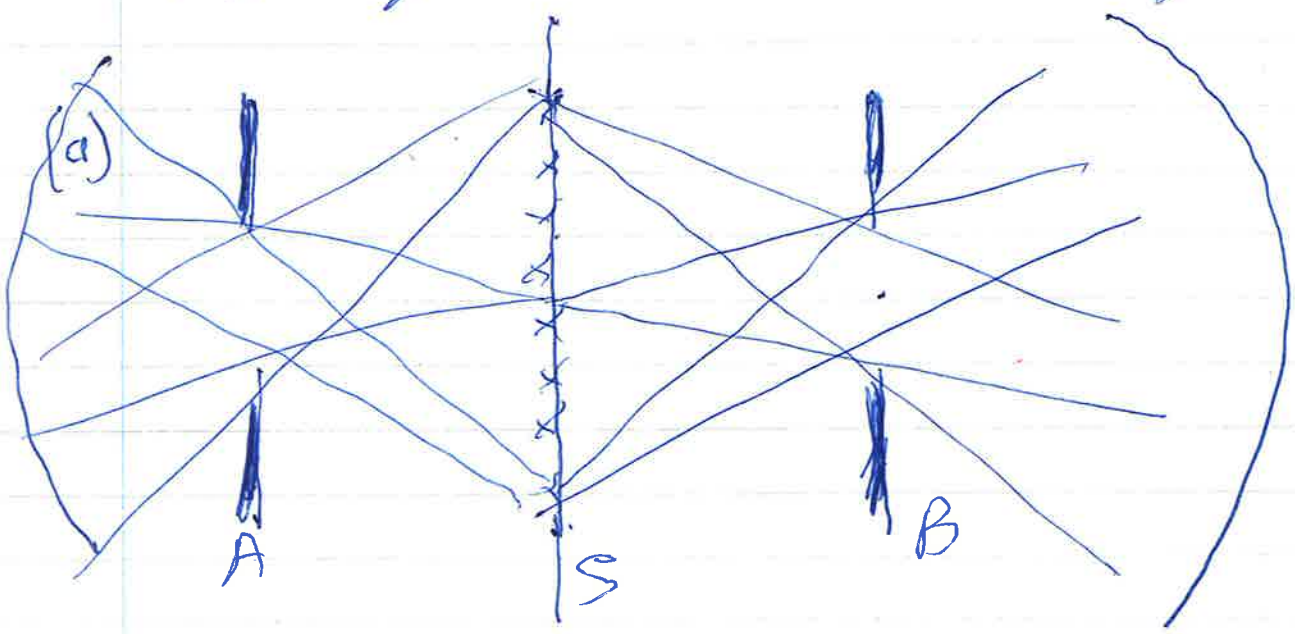
Can Experiments refute the Copenhagen Interpretation

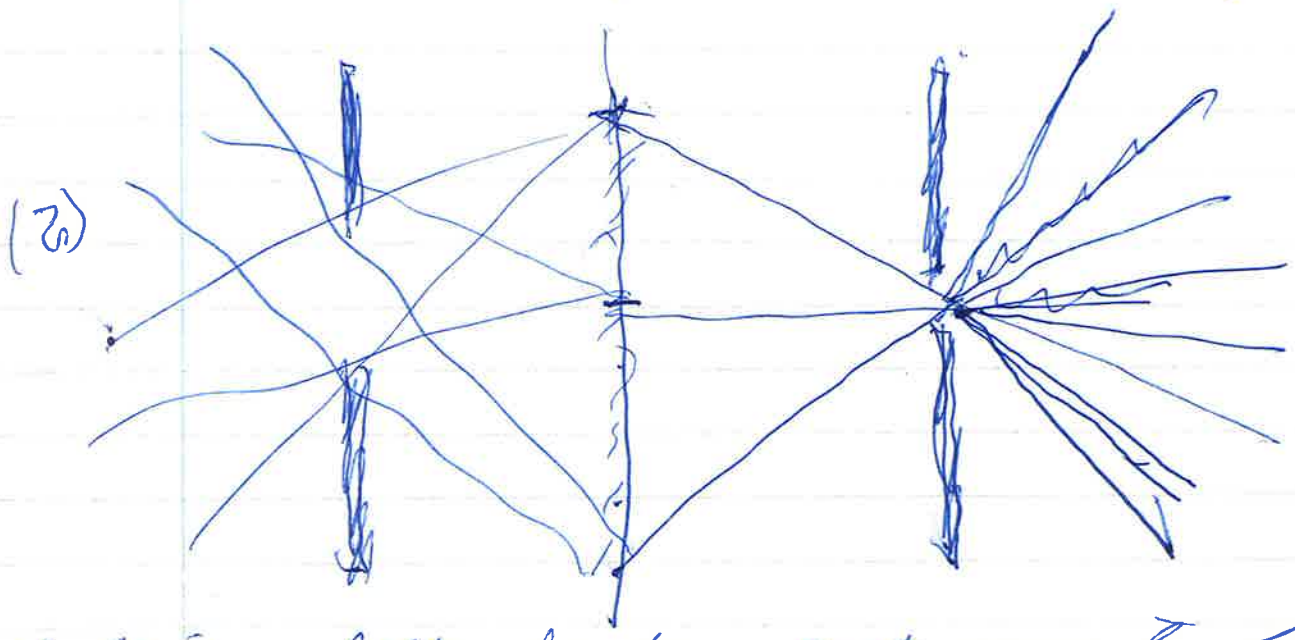
3.30 1. 2 senses of interpretation 1 & 2.

2. Interpretation 2's cannot be distinguished by experiment

3. Test nonreality Ω & Ω' { eigenstate of Ω / non-eigenstate of Ω.

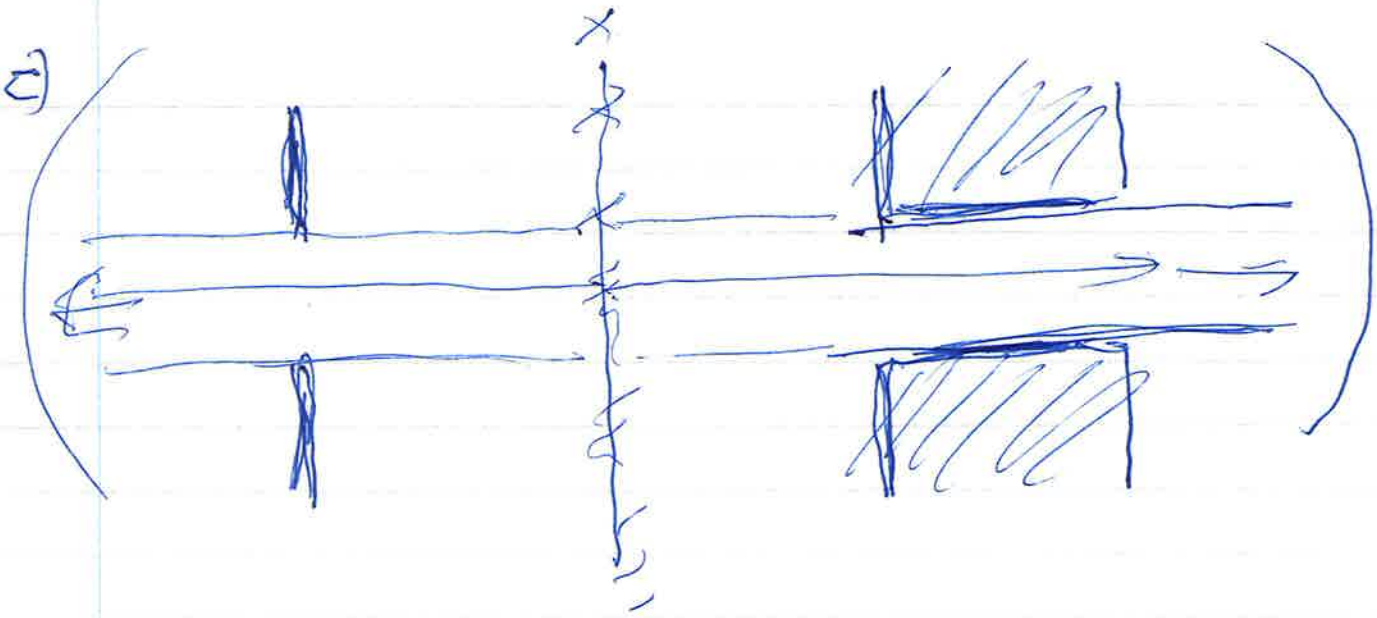
3.40 4. Popper experiment — entangled photons.



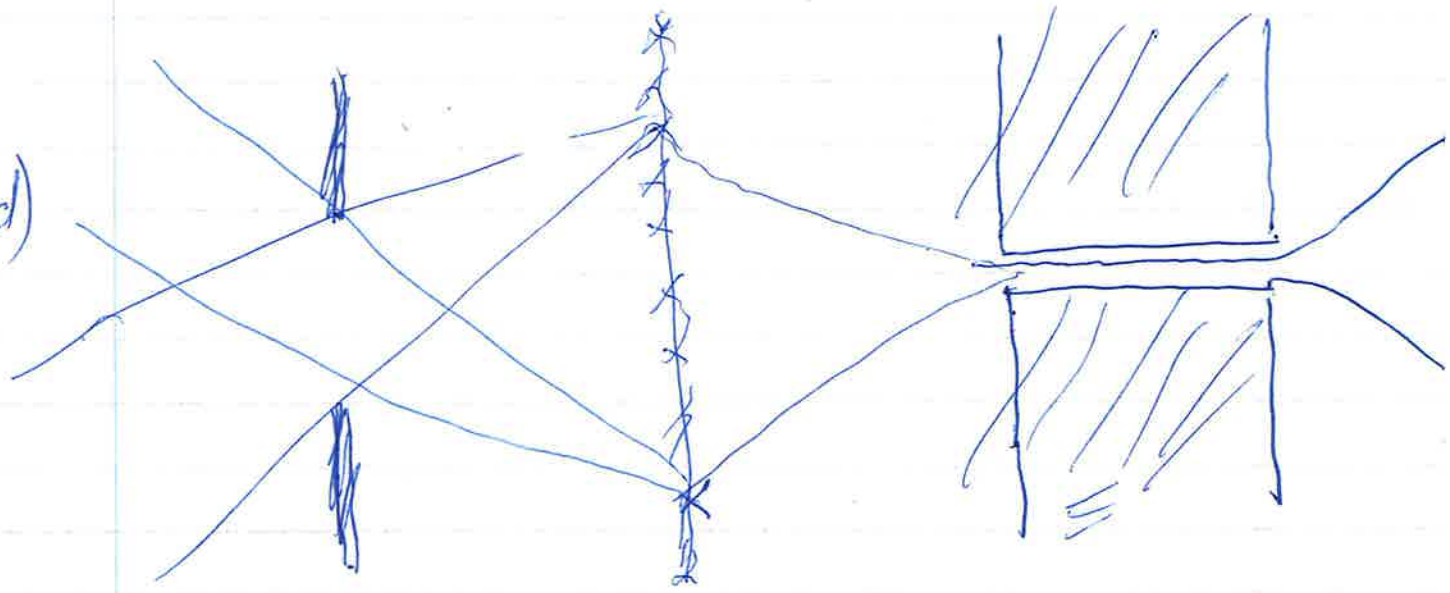
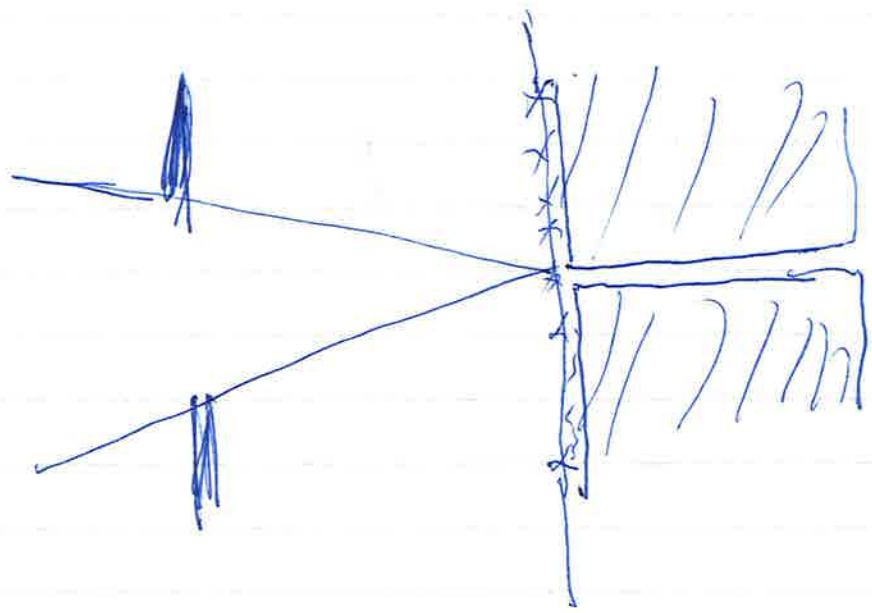


Conclusion Popper has done a great service to the theory of QM by emphasizing the distinction between measurement and state preparation, and by spear-heading the rejection to the dogmatic transcendentalism philosophy of the Copenhagenists. Because some detailed arguments are flawed, this does not mean that his overall emphasis has not been abundantly confirmed.

(c)



(d)



(e)